



Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<i>Complete If Known</i>	
				Application Number	10/648,089
				Filing Date	August 26, 2003
				First Named Inventor	Samuel H. Gellman
				Group Art Unit	
Examiner Name					
Sheet	1	of	4	Attorney Docket Number	09820.286

<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T
SG		ABELE, GUICHARD, & SEEBACH (1998) <i>"(S)-133-homolysine- and (S)-P3-homoserine-containing 13-peptides: CD spectra in aqueous solution,"</i> <i>Helv. Chim. Acta</i> 81:2141			
		APPELLA, D. H.; LEPLAE, P. R.; RAGUSE, T. L.; GELIMAN, S. H. (2000) <i>"(R,R,R)-2,5-Diaminocyclohexanecarboxylic Acid, a Building Block for Water-Soluble, Helix-Forming <math>\beta</math>-Peptides,"</i> <i>J. Org. Chem.</i> 65: 4766-4769			✓
		APPELLA, CHRISTIANSON, KARLE, POWELL, & GELLMAN (1996) <i>"<math>\beta</math>-Peptide Foldamers: Robust Helix Formation in a New Family of <math>\beta</math>-Amino Acid Oligomers,"</i> <i>J. Am. Chem. Soc.</i> 118:13071			✓
		APPELLA, CHRISTIANSON, KLEIN, POWELL, HUANG, BARCHI, & GELLMAN (1997) <i>"Residue-Based Control of Helix Shape in <math>\beta</math>-Peptide Oligomers</i> <i>Nature</i> 387:381			✓
		APPELLA, CHRISTIANSON, KARLE, POWELL & GELLMAN (1999) <i>"Synthesis and Characterization of trans-2-Aminocyclohexanecarboxylic Acid Oligomers: An Unnatural Secondary Structure, and Implications for <math>\beta</math>-Peptide Tertiary Structure,"</i> <i>J. Am. Chem. Soc.</i> 121:6206			✓
		APPELLA, CHRISTIANSON, KLEIN, RICHARDS, POWELL, & GELLMAN (1999) <i>"Synthesis and Characterization of Helix-Forming <math>\beta</math>-Peptides: trans-2- aminocyclopentanecarboxylic acid oligomers,"</i> <i>J. Am. Chem. Soc.</i> 121:7574			
		BARCHI, HUANG, APPELLA, CHRISTIANSON, DURELL, & GELLMAN (2000) <i>"Solution Conformations of Helix-Forming n-Amino Acid Homooligomers,"</i> <i>J. Am. Chem. Soc.</i> 122:2711			✓
		BLASKOVICH, LIN, DELARUE, SUN, PARK, COPPOLA, HAMILTON, & SEBTI (2000) <i>"Design of GFB-111, a platelet-derived growth factor binding molecule with antiangiogenic and anticancer activity against human tumors in mice,"</i> <i>Nature Biotechnol.</i> 18:1065			✓
		BOLM, SCHIFFERS, DINTER, & GERLACH (2000) <i>"Practical and highly enantioselective ring opening of cyclic meso-anhydrides mediated by cinchona alkaloids,"</i> <i>J. Org. Chem.</i> 65:6984			✓
SG		BOTHNER-BY, STEPHENS, LEE, WARREN, & JEANLOZ R. W. (1984) <i>J. Am. Chem. Soc.</i> (1984) 106:811			✓

Examiner Signature	<i>SG</i>	Date Considered	4/21/05
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JAN 20 2004

Substitute for form 1470 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<i>Complete If Known</i>	
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ASD		BRAUNSELIWEILER & ERNST (1983) <i>J. Magn. Reson.</i> 53:521			✓
		CAMMERS-GOODWIN, ALLEN, OSLICK, MCCLURE, LEE & KEMP (1996) "Mechanism of stabilization of helical conformations of polypeptides by water containing trifluoroethanol," <i>J. Am. Chem. Soc.</i> 118:3082.			✓
		CHIN & SCHEPARTZ (2001) "Concerted evolution of structure and function in a miniature protein," <i>J. Am. Chem. Soc.</i> 123:2929			
		CHUNG, HUCK, CHRISTIANSON, STANGER, KRAUTHAUSER, POWELL & GELLMAN (2000) <i>J. Am. Chem. Soc.</i> 122:3995			✓
		COCHRAN (2000) "Antagonists of protein-protein interactions," <i>Chem. Biol.</i> 7: R85			
		COLUCCI, TUNG, PETRI & RICH (1990) <i>J. Org. Chem.</i> 55: 2895-2903			
		CREIGHTON, T. E. (1993) "Proteins: structures and molecular properties," 2nd Edition, p. 14.			
		CURRAN, CHANDLER, KENNEDY, & KEANEY (1996) "N- $\alpha$ -Benzoyl- <i>cis</i> -4-amino-L-20 proLine: a $\gamma$ -turnmimetic, <i>Tetrahedron Lett.</i> 37:1933			
		DADO AND GELLMAN (1994) <i>J. Am. Chem. Soc.</i> 116:1054-1062			✓
		FISK, POWELL, & GELLMAN (2000) <i>J. Am. Chem. Soc.</i> 122:5443.			
		DEGRADO, SCHNEIDER, & HAMURO (1999) <i>Pept. Res.</i> 54:206			
		GELLMAN (1998) <i>Acc. Chem. Res.</i> 31:173			✓
		GELLMAN (1998) <sup>b</sup> "Minimal model systems for $\beta$ -sheet secondary structure in proteins," <i>Curr. Opin. Chem. Biol.</i> 2:717			✓
		GOMEZ-VIDAL & SILVERMAN (2001) "Short, highly efficient syntheses of protected 3-azido- and 4-azidoproline and their precursors," <i>Org. Lett.</i> 3:2481			✓
		GOODMAN, VERDINI, TONILOLO, PHILLIPS, & BOVEY (1969) <i>Proc. Natl. Acad. Sci. USA</i> 64:444.			✓
ASD		GUNG, ZOU, STALCUP, & COTTRELL, (1999) "Characterization of a water-soluble, helical $\beta$ -peptide," <i>J. Org. Chem.</i> 64:2176.			✓

Examiner Signature	<i>Samuel H. Gellman</i>	Date Considered	4/21/05
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#### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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AGK		HAMURO et al. (1999) <i>J. Am. Chem. Soc.</i> 121:12200-12201.	
		HANESSIAN, LUO, SCHAUM, MICHNICK (1998) "Design of secondary structures in unnatural peptides: stable helical $\gamma$ -tetra-, hexa-, and octapeptides and consequences of $\alpha$ -substitution," <i>J. Am. Chem. Soc.</i> 120:8569.	✓
		HANESSIAN, LUO, SCHAUM (1999) <i>Tetrahedron Lett.</i> 40:4925.	✓
		HERLT, KIBBY, RICKARDS (1981) <i>Aust. J. Chem.</i> 34:1319-1324	
		HINTERMANN, GADEMANN, JAUN, SEEBACH (1998) " $\gamma$ -Peptides forming more stable 10 secondary structures than $\alpha$ -peptides: synthesis and helical NMR-solution structure of the $\gamma$ -hexapeptide analog of H-(Val-Ala-Leu) <sub>2</sub> -OH," <i>Helv. Chem. Acta</i> 81:983.	
		KOBAYASHI, KAMIYAMA, & OHNO (1990) "Chiral synthon obtained with pig-liver esterase--introduction of chiral centers into cyclohexene skeleton," <i>Chem. Pharm. Bull.</i> 38:350-354.	✓
		KOBAYASHI, KAMIYAMA, & OHNO (1990) "The first enantioselective synthesis of fortamine, the 1,4-diaminocyclitol moiety of fortimicin-A, by chemicoenzymatic approach," <i>J. Org. Chem.</i> 55:1169	✓
		LACROIX, KORTEMME, LOPEZ DOLAPAZ, & SERRANO (1999) <i>Curr. Opin. Struct. Biol.</i> 9:487	✓
		LEE, SYUD, WANG, GELLMAN (2001) "Diversity in Short $\beta$ -Peptide 12-Helices: High Resolution Structural Analysis in Aqueous Solution of a Hexamer Containing Sulfonated Pyrrolidine Residues," <i>J. Am. Chem. Soc.</i> 123:7721	✓
		LEPLAE, UMEZAWA, LEE, GELLMAN (2001) <i>J. Org. Chem.</i> 66:5629-5632	
		LUO & BALDWIN (1997) "Mechanism of helix induction by trifluoroethanol: a framework for extrapolating the helix-forming properties of peptides from trifluoroethanol/water mixtures back to water," <i>Biochemistry</i> 36:8413	
		MACURA & ERNST (1980) <i>Mol. Phys.</i> 41:95	
ASIL		MERRIFIELD, R. B. (1963) "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," <i>J. Am. Chem. Soc.</i> 85:2149-2154	✓

Examiner Signature	<i>John D. Gellman</i>	Date Considered	4/21/05
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ADK		RAGOTHAMA, AWASTHI, BALARAM, (1998) "β-Hairpin nucleation by Pro-Glyβ-turns. Comparison of D-Pro-Gly and L-Pro-Gly sequences in an apolar octapeptide," <i>J. Chem. Soc., Perkin Trans. 2</i> :137	✓
		SEEBACH et al. (1996)* <i>Helv. Chem. Acta</i> 79:913-941	
		SEEBACH & MATTHEWS (1997) <i>J. Chem. Soc., Chem. Commun.</i> 2015-2022	✓
		SEEBACH, BRENNER, RUEPING, SCHWEIZER, JAUN (2001) "Preparation and determination of x-ray-crystal and NMR-solution structures of γ <sup>234</sup> -peptides," <i>J. Chem. Soc., Chem. Commun.</i> 207	✓
		SUHARA et al. (1996) <i>Tetrahedron Lett.</i> 37(10):1575-1578	✓
		WALGERS, LEE, & CAMMERS-GOODWIN, (1998) "An indirect chaotropic mechanism for the stabilization of helix conformation of peptides in aqueous trifluoroethanol and hexafluoro-2-propanol," <i>J. Am. Chem. Soc.</i> 120:5073.	✓
		WANG, LIU, ZHANG, SHAN, HAN, SRINIVASULA, CROCE, ALNEMRI, & HUANG (2000) "Structure-based discovery of an organic compound that binds Bcl-2 protein and induces apoptosis of tumor cells," <i>Proc. Natl. Acad. Sci. USA</i> 97:7124.	✓
		WOLL, LAI, GUZEI, TAYLOR, SMITH, GELLMAN, "Parallel Sheet Secondary Structur 20 in γ-Peptides," <i>J. Am. Chem. Soc.</i> , in press	✓
ADK		Zutshi, Brickner, & Chmielewski (1998) "Inhibiting the assembly of protein-protein interfaces," <i>Curr. Opin. Chem. Biol.</i> 2:62.	✓

Examiner Signature	<i>Ph. D.</i>	Date Considered	- 4/2/05
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